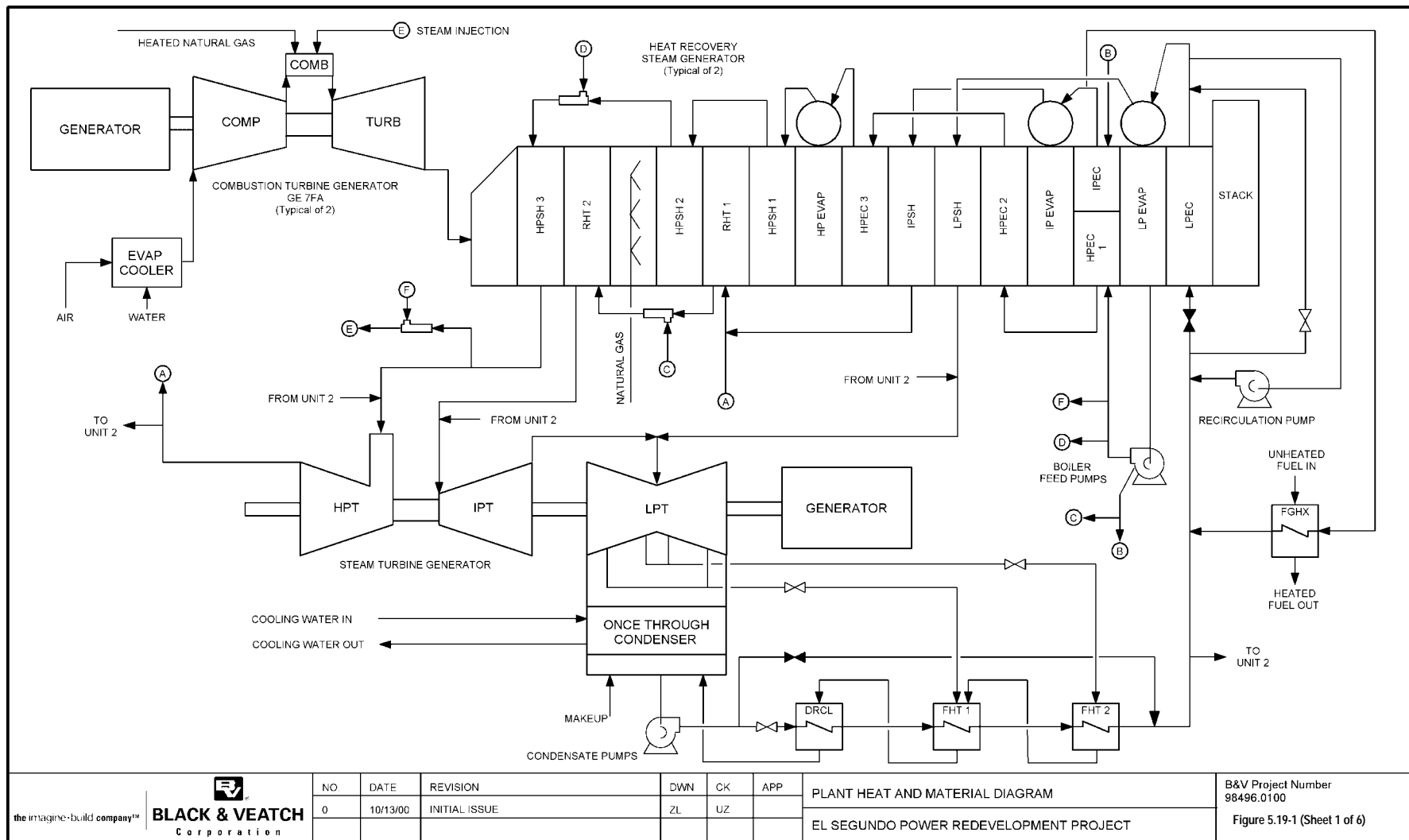


ATTACHMENT 7
DATA REQUEST NO. 19

FIGURE 5.19-1
PLANT HEAT AND MATERIAL DIAGRAM

RESPONSE TO DATA REQUESTS
MARCH 8, 2001



<div> <div>El Segundo</div> <div>Unit 1&2 Power Redevelopment</div> <div>Overall Combined Cycle Performance Estimate</div> <div>Figure 5.19-1 (Sheet 2 of 6)</div> </div> <div>c:\projects\el_segundo\elsegundo_2hrsg_rev0.xls</div> <div>3/27/01</div> <div>JFR</div>					
Case Name	Case 1	Case 2	Case 3	Case 4	Case 5
Case Description	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection On from Main Steam Duct Firing On	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System Off Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On/Off Once Through Condenser Model Steam Injection Off Duct Firing Off
Ambient Temperature	83 F	83 F	83 F	83 F	83 F
Number of CTG/HRSG Units Operating	2	2	1	1	2
CTG Model	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)
CTG Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
CTG Load Level (percent of base load)	100.00%	100.00%	100.00%	50.00%	100.00%
CTG Evaporative Cooler	Evap On	Evap On	Evap On	Evap Off	Evap Off
HRSG Firing	Unfired	Fired	Unfired	Unfired	Unfired
STG Output	188.9 MW	288.4 MW	91.5 MW	63.6 MW	163.4 MW
STG Throttle Conditions, psia/F	1105P/1041T	1826P/1050T	1000P/1045T	1000P/1050T	1000P/1050T
STG Hot Reheat Conditions, psia/F	311P/1041T	506P/1050T	160P/1042T	118P/1050T	271P/1050T
Condenser Pressure	1.48 in HgA	1.78 in HgA	1 in HgA	1 in HgA	1.32 in HgA
New & Clean Performance per Block					
Number of CTG/HRSG Units Operating	2	2	1	1	2
Gross CTG #1 Output, kW (each)	162,500	179,400	162,500	77,500	162,500
Gross CTG #2 Output, kW (each)	162,500	179,400	N/A	N/A	77,500
Gross CTG Output, kW (total)	325,000	358,800	162,500	77,500	240,000
Gross CTG Heat Rate, Btu/kWh (LHV)	9,505.0	9,096.0	9,505.0	12,558.8	10,488.3
Gross CTG Heat Rate, Btu/kWh (HHV)	10,556.4	10,102.2	10,556.4	13,948.0	11,648.5
CTG Heat Input, MBtu/h (LHV) (total)	3,089.1	3,263.6	1,544.6	973.3	2,517.2
CTG Heat Input, MBtu/h (HHV) (total)	3,430.8	3,624.7	1,715.4	1,081.0	2,795.6
Duct Burner Heat Input, MBtu/h (LHV) (each)	0.0	540.5	0.0	0.0	0.0
Duct Burner Heat Input, MBtu/h (LHV) (total)	0.0	1,081.0	0.0	0.0	0.0
Gross STG Output, kW	188,880	288,390	91,500	63,570	163,360
Gross Plant Output, kW	513,880	647,190	254,000	141,070	403,360
Gross Cycle Heat Rate, Btu/kWh (LHV)	6,011	6,713	6,081	6,899	6,241
Gross Cycle Heat Rate, Btu/kWh (HHV)	6,676	7,456	6,754	7,663	6,931
Auxiliary Power/Losses, kW	12,710	15,730	9,610	8,630	12,150
Auxiliary Power/Losses, percent of gross	2.47%	2.43%	3.78%	6.12%	3.01%
Block Heat Input, MBtu/h (LHV)	3,089.1	4,344.6	1,544.6	972.6	2,517.2
Block Heat Input, MBtu/h (HHV)	3,430.8	4,825.3	1,715.4	1,080.2	2,795.6
Net Block Output, kW	501,170	631,460	244,390	132,440	391,210
Net Block Heat Rate, Btu/kWh (LHV)	6,164	6,880	6,320	7,344	6,434
Net Block Heat Rate, Btu/kWh (HHV)	6,846	7,641	7,019	8,156	7,146
Net Block Efficiency (LHV)	55.36%	49.59%	53.99%	46.46%	53.03%
Net Block Efficiency (HHV)	49.84%	44.65%	48.61%	41.83%	47.75%
Notes: <ol style="list-style-type: none"> The combustion turbine generator (CTG) performance was estimated by Cycledeck, and GTPE, two General Electric performance estimating programs. A steam injected CTG performance is based on a B&V estimate. Supplementally fired cases are fired to maximum allowed duct burner exit gas temperature or maximum steam turbine throttle pressure, whichever occurs first. The heat rejection system is limited by duty. The auxiliary cooling duty was assumed to be 7.5% of the total heat rejection duty No boiler feed pump efficiency curves were used and BFP outlet pressure was assumed to be constant. Maximum steam turbine throttle pressure was assumed to be 1905 psia. Maximum pressure requirements for steam injection are 360 psig and minimum temperature requirement is 650 F. 1% Blowdown is assumed for HP & IP drums. The steam turbine performance is based on a typical GE steam turbine. Deaeration occurs within the condenser. A make up water deaerator is required due to steam injection. Cycle make up water has a temperature of 59F. The steam extracted for power augmentation was extracted from HP steam. This performance is an estimate and can not be guaranteed. 					

<div> <div>El Segundo</div> <div>Unit 1&2 Power Redevelopment</div> <div>Overall Combined Cycle Performance Estimate</div> <div>Figure 5.19-1 (Sheet 3 of 6)</div> </div> <div>c:\projects\el_segundo\elsegundo_2hrsg_rev0.xls</div> <div>3/27/01</div> <div>JFR</div>					
Case Name	Case 1	Case 2	Case 3	Case 4	Case 5
Case Description	Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection On from Main Steam Duct Firing On	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System Off Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On/Off Once Through Condenser Model Steam Injection Off Duct Firing Off
Ambient Temperature	83 F	83 F	83 F	83 F	83 F
Number of CTG/HRSG Units Operating	2	2	1	1	2
CTG Model	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)
CTG Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
CTG Load Level (percent of base load)	100.00%	100.00%	100.00%	50.00%	100.00%
CTG Evaporative Cooler	Evap On	Evap On	Evap On	Evap Off	Evap Off
HRSG Firing	Unfired	Fired	Unfired	Unfired	Unfired
STG Output	188.9 MW	288.4 MW	91.5 MW	63.6 MW	163.4 MW
STG Throttle Conditions, psia/F	1105P/1041T	1826P/1050T	1000P/1045T	1000P/1050T	1000P/1050T
STG Hot Reheat Conditions, psia/F	311P/1041T	506P/1050T	160P/1042T	118P/1050T	271P/1050T
Condenser Pressure	1.48 in HgA	1.78 in HgA	1 in HgA	1 in HgA	1.32 in HgA
Combustion Turbine Generator #1					
Ambient Conditions	Pressure, psia	14.7	14.7	14.7	14.7
	Temperature, F	83	83	83	83
	Relative Humidity	47.00%	47.00%	47.00%	47.00%
Compressor Inlet Conditions	Temperature, F	70.38	70.38	70.38	70.38
	Relative Humidity	89.47%	89.47%	89.47%	89.47%
Evaporative Cooler Used?		Evap On	Evap On	Evap On	Evap On
Fuel Flow	Flowrate, lb/h	71,790	75,850	71,790	71,790
CTG Fuel Input	HC MBtu/h, LHV	1544.6	1631.8	1544.6	1544.6
	HC MBtu/h, HHV	1715.4	1812.3	1715.4	1715.4
	Fuel Type	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Performance Basis Temperature, F		365	365	365	365
Steam Injection	Flowrate, lb/h	0	115,510	0	0
CTG Exhaust	Flowrate, lb/h	3,484,000	3,602,000	3,484,000	3,484,000
	Pressure, in H2O	14.22	14.22	14.22	14.22
	Temperature, F	1,136.00	1,121.00	1,136.00	1,136.00
Generator Gross Output, Kw (each)		162,500	179,400	162,500	162,500
Combustion Turbine Generator #2					
Ambient Conditions	Pressure, psia	14.7	14.7	N/A	14.7
	Temperature, F	83	83	N/A	83
	Relative Humidity	47.00%	47.00%	N/A	47.00%
Compressor Inlet Conditions	Temperature, F	70.38	70.38	N/A	70.38
	Relative Humidity	89.47%	89.47%	N/A	89.47%
Evaporative Cooler Used?		Evap On	Evap On	N/A	Evap Off
Fuel Flow	Flowrate, lb/h	71,790	75,850	N/A	45,210
CTG Fuel Input	HC MBtu/h, LHV	1544.6	1631.8	N/A	972.6
	HC MBtu/h, HHV	1715.4	1812.3	N/A	1080.2
	Fuel Type	Natural Gas	Natural Gas	N/A	Natural Gas
Performance Basis Temperature, F		365	365	N/A	365
Steam Injection	Flowrate, lb/h	0	115,510	N/A	0
CTG Exhaust	Flowrate, lb/h	3,484,000	3,602,000	N/A	2,320,000
	Pressure, in H2O	14.22	14.22	N/A	14.22
	Temperature, F	1,136.00	1,121.00	N/A	1,200.00
Generator Gross Output, Kw (each)		162,500	179,400	N/A	77,500

El Segundo Unit 1&2 Power Redevelopment Overall Combined Cycle Performance Estimate Figure 5.19-1 (Sheet 4 of 6)							c:\projects\el_segundo\elsegundo_2hrsrg_rev0.xls 3/27/01 JFR
Case Name		Case 1	Case 2	Case 3	Case 4	Case 5	
Case Description		Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection On from Main Steam Duct Firing On	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System Off Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On/Off Once Through Condenser Model Steam Injection Off Duct Firing Off	
Ambient Temperature		83 F	83 F	83 F	83 F	83 F	
Number of CTG/HRSG Units Operating		2	2	1	1	2	
CTG Model		GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)	
CTG Fuel		Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	
CTG Load Level (percent of base load)		100.00%	100.00%	100.00%	50.00%	100.00%	
CTG Evaporative Cooler		Evap On	Evap On	Evap On	Evap Off	Evap Off	
HRSG Firing		Unfired	Fired	Unfired	Unfired	Unfired	
STG Output		188.9 MW	288.4 MW	91.5 MW	63.6 MW	163.4 MW	
STG Throttle Conditions, psia/F		1105P/1041T	1826P/1050T	1000P/1045T	1000P/1050T	1000P/1050T	
STG Hot Reheat Conditions, psia/F		311P/1041T	506P/1050T	160P/1042T	118P/1050T	271P/1050T	
Condenser Pressure		1.48 in HgA	1.78 in HgA	1 in HgA	1 in HgA	1.32 in HgA	
Heat Recovery Steam Generator #1							
HRSG HP Steam (after NRV)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	435,395 1,150.30 1,044.20 1,526.20	827,305 1,907.80 1,054.80 1,511.08	438,211 1,025.50 1,047.00 1,531.31	311,142 1,012.90 1,051.80 1,534.23	441,698 1,041.90 1,020.90 1,516.06	
HP Steam Desuperheating Spray	Flowrate, lb/h	0	10,844	0	20,748	10,528	
HRSG Hot Reheat Steam (after NRV)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	479,937 319.4 1,042.80 1,548.33	782,080 520.1 1,051.90 1,547.80	491,534 170.2 1,045.00 1,553.58	361,718 125.6 1,052.40 1,558.66	486,028 280 1,026.70 1,540.90	
Cold Reheat Steam from STG	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	425,823 345.2 732 1,383.48	711,797 586.6 738.8 1,374.74	428,046 197.3 756 1,403.09	303,934 139.9 754.6 1,405.01	425,820 306.2 745.7 1,392.61	
IP FW to Fuel Gas Heat Exchanger (from IP EC exit)	Flowrate, lb/h Temperature, F Enthalpy, Btu/lb	41,674 427.6 405.65	37,718 472.1 455.47	49,671 383.3 357.72	32,937 351.8 324.57	43,392 416.9 393.86	
LP Steam (after NRV)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	53,549 58.7 557.1 1,311.33	0 67.2 300.2 1,179.79	48,485 30.7 549.5 1,309.74	28,400 21.5 544.5 1,308.08	51,202 50.3 550 1,308.51	
Condensate to LP Economizer	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	749,871 250 140 108.55	0 250 235.7 204.63	872,521 250 140 108.61	709,193 250 140.1 108.68	791,427 250 140 108.6	
Stack Exhaust	Temperature, F	200.5	336.9	183.6	163.7	194.8	
Heat Recovery Steam Generator #2							
HRSG HP Steam (after NRV)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	435,395 1,150.30 1,044.20 1,526.20	827,305 1,907.80 1,054.80 1,511.08	N/A N/A N/A N/A	N/A N/A N/A N/A	310,832 1,033.80 1,096.20 1,558.92	
HP Steam Desuperheating Spray	Flowrate, lb/h	0	10,844	N/A	N/A	6,771	
HRSG Hot Reheat Steam (after NRV)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	479,937 319.4 1,042.80 1,548.33	782,080 520.1 1,051.90 1,547.80	N/A N/A N/A N/A	N/A N/A N/A N/A	348,972 278 1,083.90 1,571.37	
Cold Reheat Steam from STG	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	425,823 345.2 732 1,383.48	711,797 586.6 738.8 1,374.74	N/A N/A N/A N/A	N/A N/A N/A N/A	310,028 307.6 745.8 1,392.63	
IP FW to Fuel Gas Heat Exchanger (from IP EC exit)	Flowrate, lb/h Temperature, F Enthalpy, Btu/lb	41,674 427.6 405.65	37,718 472.1 455.47	N/A N/A N/A	N/A N/A N/A	47,815 392.3 367.42	
LP Steam (after NRV)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	53,549 58.7 557.1 1,311.33	0 67.2 300.2 1,179.79	N/A N/A N/A N/A	N/A N/A N/A N/A	28,829 49.4 551.4 1,309.23	
Condensate to LP Economizer	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	749,871 250 140 108.55	0 250 235.7 204.63	N/A N/A N/A N/A	N/A N/A N/A N/A	579,459 250 140.1 108.65	
Stack Exhaust	Temperature, F	200.5	336.9	N/A	N/A	179.3	

<div> <div>El Segundo</div> <div>c:\projects\el_segundo\elsegundo_2hrrsg_rev0.xls</div> </div> <div> <div>Unit 1&2 Power Redevelopment</div> <div>3/27/01</div> </div> <div> <div>Overall Combined Cycle Performance Estimate</div> <div>JFR</div> </div> <div>Figure 5.19-1 (Sheet 5 of 6)</div>						
Case Name	Case 1	Case 2	Case 3	Case 4	Case 5	
Case Description	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection On from Main Steam Duct Firing On	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System Off Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On/Off Once Through Condenser Model Steam Injection Off Duct Firing Off	
Ambient Temperature	83 F	83 F	83 F	83 F	83 F	
Number of CTG/HRSG Units Operating	2	2	1	1	2	
CTG Model	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)	GE7241(FA)	
CTG Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	
CTG Load Level (percent of base load)	100.00%	100.00%	100.00%	50.00%	100.00%	
CTG Evaporative Cooler	Evap On	Evap On	Evap On	Evap Off	Evap Off	
HRSG Firing	Unfired	Fired	Unfired	Unfired	Unfired	
STG Output	188.9 MW	288.4 MW	91.5 MW	63.6 MW	163.4 MW	
STG Throttle Conditions, psia/F	1105P/1041T	1826P/1050T	1000P/1045T	1000P/1050T	1000P/1050T	
STG Hot Reheat Conditions, psia/F	311P/1041T	506P/1050T	160P/1042T	118P/1050T	271P/1050T	
Condenser Pressure	1.48 in HgA	1.78 in HgA	1 in HgA	1 in HgA	1.32 in HgA	
Main Steam Throttle Conditions	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	870,790 1,105.30 1,040.90 1,525.63	1,455,950 1,826.10 1,050.10 1,510.50	438,211 1,000.00 1,044.80 1,530.79	311,142 1,000.00 1,050.00 1,533.72	752,530 1,000.00 1,050.00 1,533.70
Cold Reheat Steam	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	859,912 354.9 733.5 1,383.77	1,437,762 602.3 740.7 1,375.01	432,737 205.1 757.4 1,403.43	307,256 145.5 755.8 1,405.36	743,130 315.2 746.7 1,392.70
Hot Reheat Steam	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	959,875 310.7 1,041.20 1,547.73	1,564,161 506 1,050.10 1,547.19	491,534 159.7 1,042.40 1,552.49	361,718 117.8 1,049.90 1,557.56	834,999 271.3 1,050.10 1,553.52
1PT Throttle Steam	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	959,875 310.7 1,041.20 1,547.73	1,564,161 506 1,050.10 1,547.19	491,534 159.7 1,042.40 1,552.49	361,718 117.8 1,049.90 1,557.56	834,999 271.3 1,050.10 1,553.52
LP Admission Steam (From HRSG)	Flowrate, lb/h Pressure, psia Temperature, F Enthalpy, Btu/lb	107,098 56 555.5 1,310.75	0 67.2 300.2 1,179.29	48,485 28.1 547.4 1,308.96	28,400 20.3 543 1,307.45	80,031 48 550.1 1,308.71
LP Turbine Exhaust	Flowrate, lb/h Pressure, psia Pressure, in HgA Temperature, F ELEP Enthalpy, Btu/lb UEEP Enthalpy, Btu/lb Exhaust Loss Enthalpy, Btu/lb	1,083,786 0.729 1.484 91.4 1,022.20 1,028.96 6.76	1,356,108 0.874 1.779 97.3 1,007.36 1,014.68 7.32	549,023 0.491 1 79 1,038.24 1,043.03 4.79	396,491 0.491 1 79 1,056.01 1,066.66 10.65	929,723 0.649 1.321 87.7 1,025.29 1,031.34 6.05
Generator	Gross Output, kW	188880	288390	91500	63570	163360
Condenser Duty	Heat Duty, MBtu/h MW	1,052.76 308.53	1,283.04 376.02	547.51 160.46	404.57 118.57	908.68 266.31
Aux Cooling Duty	MW	25.02	30.49	13.01	9.61	21.59
Total Heat Rejection Duty	MW	333.55	406.51	173.47	128.18	287.90
Total Circulating Water from Ocean	Flowrate, lb/h Temperature, F	73,666,840 64.4	73,666,840 64.4	73,666,840 64.4	73,666,840 64.4	73,666,840 64.4
Circulating Water to Condenser	Flowrate, lb/h Temperature, F	68,141,828 64.4	68,141,828 64.4	68,141,828 64.4	68,141,828 64.4	68,141,828 64.4
Circulating Water from Condenser	Flowrate, lb/h Temperature, F	68,141,828 79.89	68,141,828 83.28	68,141,828 72.8	68,141,828 70.6	68,141,828 77.77
Total Circulating Water Return to Ocean	Flowrate, lb/h Temperature, F	73,666,840 79.9	73,666,840 83.3	73,666,840 72.8	73,666,840 70.6	73,666,840 77.8
Total Circulating Water	Mgpd	207	207	207	207	207
Cooling Range	Temperature, F	15.49	18.88	8.4	6.2	13.37

		El Segundo			c:\projects\el_segundo\elsegundo_2hsg_rev0.xls	
		Unit 1&2 Power Redevelopment			3/27/01	
		Overall Combined Cycle Performance Estimate			JFR	
		Figure 5.19-1 (Sheet 6 of 6)				
Case Name		Case 1	Case 2	Case 3	Case 4	Case 5
Case Description		Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters On Inlet Cooling System On Once Through Condenser Model Steam Injection On from Main Steam Duct Firing On	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System Off Once Through Condenser Model Steam Injection Off Duct Firing Off	Hot Summer Day Off Design Feedwater Heaters Off Inlet Cooling System On/Off Once Through Condenser Model Steam Injection Off Duct Firing Off
Ambient Temperature		83 F	83 F	83 F	83 F	83 F
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CTG Fuel		Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
CTG Load Level (percent of base load)		100.00%	100.00%	100.00%	50.00%	100.00%
CTG Evaporative Cooler		Evap On	Evap On	Evap On	Evap Off	Evap Off
HRSG Firing		Unfired	Fired	Unfired	Unfired	Unfired
STG Output		188.9 MW	288.4 MW	91.5 MW	63.6 MW	163.4 MW
STG Throttle Conditions, psia/F		1105P/1041T	1826P/1050T	1000P/1045T	1000P/1050T	1000P/1050T
STG Hot Reheat Conditions, psia/F		311P/1041T	506P/1050T	160P/1042T	118P/1050T	271P/1050T
Condenser Pressure		1.48 in HgA	1.78 in HgA	1 in HgA	1 in HgA	1.32 in HgA
Feedwater Heaters						
Drain Cooler Water Inlet	Flowrate, lb/h	Feedwater Heater Out of Service	1,844,877	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	97.9	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Drain Cooler Water Outlet	Flowrate, lb/h	Feedwater Heater Out of Service	1,844,877	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	108.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Deaerator Drain Inlet	Flowrate, lb/h	Feedwater Heater Out of Service	236,950	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	187.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Deaerator Drain Outlet	Flowrate, lb/h	Feedwater Heater Out of Service	236,950	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	102.9	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Drain Cooler Duty	Heat Duty, MBtu/h	Feedwater Heater Out of Service	20.13	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater Water #1 Inlet	Flowrate, lb/h	Feedwater Heater Out of Service	1,844,877	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	108.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater Water #1 Outlet	Flowrate, lb/h	Feedwater Heater Out of Service	1,844,877	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	182.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #1 Steam Inlet	Flowrate, lb/h	Feedwater Heater Out of Service	137,838	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	188.85	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #1 Drain Outlet	Flowrate, lb/h	Feedwater Heater Out of Service	236,950	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	187.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #1 Duty	MBtu/h	Feedwater Heater Out of Service	136.39	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #2 Water Inlet	Flowrate, lb/h	Feedwater Heater Out of Service	1,844,877	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	182.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #2 Water Outlet	Flowrate, lb/h	Feedwater Heater Out of Service	1,844,877	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	239.6	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #2 Steam Inlet	Flowrate, lb/h	Feedwater Heater Out of Service	99,112	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	372.15	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #2 Drain Outlet	Flowrate, lb/h	Feedwater Heater Out of Service	99,112	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
	Temperature, F	Feedwater Heater Out of Service	192.8	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Feedwater Heater #2 Duty	MBtu/h	Feedwater Heater Out of Service	105.47	Feedwater Heater Out of Service	Feedwater Heater Out of Service	Feedwater Heater Out of Service
Miscellaneous						
IP BFP #1 Suction	Flowrate, lb/h	536,129	960,156	556,438	405,270	550,199
	Pressure, psia	99.6	91.1	69	50.9	89.8
	Temperature, F	308.4	300.2	274.1	243	298.9
	Enthalpy, Btu/lb	278.44	270.03	243.27	211.56	268.71
IP BFP #1 Discharge	Flowrate, lb/h	536,129	960,156	556,438	405,270	550,199
	Pressure, psia	700.00	700.00	700.00	700.00	700.00
	Temperature, F	309.6	301.4	275.3	244	300.1
	Enthalpy, Btu/lb	280.75	272.37	245.66	213.98	271.05
HP BFP #1 Suction	Flowrate, lb/h	439,793	835,562	442,637	314,075	446,054
	Pressure, psia	700.00	700.00	700.00	700.00	700.00
	Temperature, F	309.6	301.4	275.3	244	300.1
	Enthalpy, Btu/lb	280.75	272.37	245.66	213.98	271.05
HP BFP #1 Discharge	Flowrate, lb/h	439,793	835,562	442,637	314,075	446,054
	Pressure, psia	2,300.00	2,300.00	2,300.00	2,300.00	2,300.00
	Temperature, F	312.7	304.5	278.1	246.6	303.2
	Enthalpy, Btu/lb	286.92	278.51	251.72	219.95	277.19
IP BFP #2 Suction	Flowrate, lb/h	536,129	960,156	N/A	N/A	401,001
	Pressure, psia	99.6	91.1	N/A	N/A	78.4
	Temperature, F	308.4	300.2	N/A	N/A	286.3
	Enthalpy, Btu/lb	278.44	270.03	N/A	N/A	255.75
IP BFP #2 Discharge	Flowrate, lb/h	536,129	960,156	N/A	N/A	401,001
	Pressure, psia	700.00	700.00	N/A	N/A	700.00
	Temperature, F	309.6	301.4	N/A	N/A	287.5
	Enthalpy, Btu/lb	280.75	272.37	N/A	N/A	258.12
HP BFP #2 Suction	Flowrate, lb/h	439,793	835,562	N/A	N/A	313,903
	Pressure, psia	700.00	700.00	N/A	N/A	700.00
	Temperature, F	309.6	301.4	N/A	N/A	287.5
	Enthalpy, Btu/lb	280.75	272.37	N/A	N/A	258.12
HP BFP #2 Discharge	Flowrate, lb/h	439,793	835,562	N/A	N/A	313,903
	Pressure, psia	2,300.00	2,300.00	N/A	N/A	2,300.00
	Temperature, F	312.7	304.5	N/A	N/A	290.4
	Enthalpy, Btu/lb	286.92	278.51	N/A	N/A	264.21
HP Evaporator Blowdown #1	Flowrate, lb/h	4,398	8,247	4,426	2,933	4,355
IP Evaporator Blowdown #1	Flowrate, lb/h	547	423	641	474	546
LP Evaporator Blowdown #1	Flowrate, lb/h	0	0	0	0	0
HP Evaporator Blowdown #2	Flowrate, lb/h	4,398	8,247	N/A	N/A	3,071
IP Evaporator Blowdown #2	Flowrate, lb/h	547	423	N/A	N/A	339
LP Evaporator Blowdown #2	Flowrate, lb/h	0	0	N/A	N/A	0
Cycle Make Up Water (total for all units)	Flowrate, lb/h	9,889	248,359	5,068	3,407	8,312
	Temperature, F	59	59	59	59	59